

HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SECTION

Field Site No.

119-KW

OAHP No.

Date Recorded

6-Jun-98

Site Name Historic Common

Exhaust Air Sample Building

Field Recorder

Jim Sharpe

Owner's Name

U.S. Department of Energy, Richland Operations Office

Address

P.O. Box 550

City/State/Zip Code

Richland, WA 99352

State of Washington, Department of Community Development
Office of Archaeology and Historic Preservation
111 21st Avenue Southwest, Post Office Box 48343
Olympia, Washington 98504-8343 (206)753-4011

Status

☒ Survey/Inventory

☐ National Register

☐ State Register

☐ Determined Eligible

☐ Determined Not Eligible

☐ Other (HABS, HAER, NHL)

☐ Local Designation

Photography

Photography Neg. No.

Roll 43 Neg. # 11

(Roll No. & Frame No.)

View of

119-KW building

Date

6/24/98

Classification

☐ District

☐ Site

☒ Building

☐ Structure

☐ Object

District Status

☒ NR

☐ SR

☐ LR

☐ INV

Contributing

☒

☐

District/Thematic Nomination Name

Hanford Site Manhattan Project and Cold War Historic District

Description Section

Materials & Features/Structural Types

Building Type

Industry

Plan

Structural System

No. of Stories

Roof Type

☒ Gable

☐ Flat

☐ Monitor

☐ Gambrel

☐ Shed

☐ Hip

☐ Pyramidal

☐ Other (specify)

Cladding (exterior Wall Surfaces)

☐ Log

☐ Horizontal Wood Siding

Rustic/Drop

☐

Clapboard

☐

☐ Wood Shingle

☐ Board and Batten

☐ Vertical Board

☐ Asbestos/Asphalt

☐ Brick

☐ Stone

☐ Stucco

☐ Terra Cotta

☐ Concrete/Concrete Block

☐ Vinyl/Aluminum Siding

☒ Metal (specify)

Corrugated metal

Other (specify)

Roof Material

☐ Wood Shingle

☐ Wood Shake

☐ Composition

☐ Slate

☐ Tar/Built-up

☐ Tile

☒ Metal (specify)

Corrugated metal

Other (specify)

Not visible

Foundation

☐ Log

☐ Post & Pier

☐ Stone

☐ Brick

☐ Not visible

Concrete

☐ Block

☐ Poured

☒ Other (specify)

Concrete slab

Integrity

(Include detailed description in Description of Physical Appearance)

Intact

Slight

Moderate

Extensive

Changes to plan

.....

☒

Changes to windows

.....

☐

Changes to original cladding

.....

☒

Changes to interior

.....

☒

Other (specify)

.....

☐

LOCATION SECTION

Address

Building, 119-KW, 100-K Area

City/Town/County/Zip Code

Richland/Benton County/99352

Twp 13

Range 26

Section 31

I/4 Section SW

1/4 1/4 Sec

SW,SW

Tax No./Parcel No.

Acreage

Quadrangle or map name

Coyote Rapids, Wash. Quad, 1896

UTM References Zone

11

Easting

300920

Northing

5169080

Plat/Block/Lot

Supplemental Map(s)



High Styles/Forms (Check one or more of the following)

☐ Greek Revival

☐ Gothic Revival

☐ Italianate

☐ Second Empire

☐ Romanesque Revival

☐ Stick Style

☐ Queen Anne

☐ Shingle Style

☐ Colonial Revival

☐ Beaux Arts/Neoclassical

☐ Chicago/Commercial Style

☐ American Foursquare

☐ Mission Revival

☐ Spanish Colonial Revival/Mediterranean

☐ Tudor Revival

☐ Craftsman/Arts & Crafts

☐ Bungalow

☐ Prairie Style

☐ Art Deco/Art Moderne

☐ Rustic Style

☐ International Style

☐ Northwest Style

☐ Commercial Vernacular

☐ Residential Vernacular (see below)

☒ Other (specify)

Industrial Vernacular

Vernacular House Types

☒ Gable Front

☐ Gable Front and Wing

☐ Side Gable

☐ Cross Gable

☐ Pyramidal/Hipped

☐ Other (specify)

NARRATIVE SECTION

Study Unit Themes

(check one or more of the following)

- ☐ Agriculture
- ☐ Architecture/Landscape Architecture
- ☐ Arts
- ☐ Commerce
- ☐ Communications
- ☐ Community Planning/Development

- ☐ Conservation
- ☐ Education
- ☐ Entertainment/Recreation
- ☐ Ethnic Heritage (specify) _____
- ☐ Health/Medicine
- ☐ Manufacturing/Industry
- ☐ Military

- ☐ Politics/Government/Law
- ☐ Religion
- ☐ Science & Engineering
- ☐ Social Movements/Organizations
- ☐ Transportation

☒ Other (specify) Manhattan Project & Cold War Era

☒ **Study Unit Sub-Theme(s)** Waste Management (Air)

Statement of Significance

Date of Construction 1952-1955 Architect/Engineer/Builder Kaiser Engineers

☒ In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.

☒ In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

The 119-KW Exhaust Air Sample Building was located in eastern Washington at the Hanford Site at the K-West Reactor Area. Construction of the KW-Reactor and its associated facilities took place from 1952 until 1955. It was constructed as part of "Project X", a large Cold War expansion effort at Hanford. The purpose of the expansion program was to generate plutonium for explosive devices as part of the nuclear arsenal. The 119-KW Exhaust Air Sample Building housed instrumentation for the exhaust air system. The building was later used by Westinghouse for the HEDL sodium/lithium burning experiments. The building is currently being maintained in a safe storage mode.

It is therefore the conclusion of the U.S. Department of Energy that the 119-KW Exhaust Air Sample Building is eligible for inclusion in the National Register of Historic Places under Criterion A as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The 119-KW Exhaust Air Sample Building was designed as a pre-engineered small ribbed metal Butler Building placed on a concrete slab floor/foundation at ground level. It is located over the ventilation ducts that lead to the 117-KW Filter Building. The building is 19 feet 9 inches long by 14 feet wide and contained no windows. The door is in the center on the west end of the structure. A square shaped vent exits from the west wall and a circular vent rests on the top of the gable roof. The interior surfaces of the building were painted wallboard.

Major Bibliographic References

UNC Nuclear Industries. 1984. *100 Deactivated Area Pictorial Review*. UNI-2780. Richland, Washington.

UNC Nuclear Industries. 1984. *Hanford 100 Area Long-Range Decommissioning Plan*. UNI-2533. Richland, Washington.

Westinghouse Hanford Company. 1994. *100-K Area Technical Baseline Report*. WHC-SD-EN-TI-239. Richland, Washington.